

Reg. No. : .....

Name : .....

Fourth Semester B.Sc. Degree Examination, August 2022

First Degree Programme under CBCSS

Chemistry

Complementary Course for Home science

CH 1431.5 : ORGANIC AND MEDICINAL CHEMISTRY

(2019 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions. **Each** question carries **1** mark.

1. Give an example for chemotherapy Drug?
2. What are antipyretics?
3. Give an example for anti-malarial drug?
4. What is BHT? What is its use?
5. What are heterocyclic compounds?
6. Give an example for six membered heterocyclic compound?
7. What is BHC?
8. What are aerosols?

P.T.O.

9. What are detergents?
10. What is PAN?

(10 × 1 = 10 Marks)

SECTION – B

Answer any **eight** questions. **Each** question carries **2** marks. (Short answer)

11. Write two examples for analgesics.
12. What are antibiotics?
13. Discuss the function of artificial sweeteners?
14. Give one method for the preparation of pyrrole?
15. Draw the resonance structure of furan?
16. Explain the acidity in pyrrole?
17. Why pyridine shows basicity?
18. How is malathion prepared?
19. What are herbicides?
20. What are rodenticides?
21. What is acid rain?
22. What is mean by biological oxygen demand?
23. What are smogs?
24. What is chitin?
25. Write note on fungicides.
26. Write two examples for food preservatives.

(8 × 2 = 16 Marks)

### SECTION – C

Answer any **six** questions. **Each** question carries **4** marks.

27. What are drugs? What are the requirements for an ideal drug?
28. Explain the importance of food preservatives with suitable example.
29. Discuss the various substitution reactions in pyridine.
30. Briefly explain the classification of insecticides with suitable example.
31. Write short note of the isolation of thiophene? Discuss its oxidation properties.
32. Write one method for the preparation of parathion and carbamates?
33. How will you synthesis paracetamol?
34. What is DDT? How it is obtained? Why was its use abandoned?
35. Write note on Water quality parameters?
36. What are various types of air pollutants?
37. What are the methods to test water quality?
38. Differentiate between photochemical smog and London smog.

(6 × 4 = 24 Marks)

### SECTION – D

Answer any **two** questions. **Each** question carries **15** marks.

39. (a) Write a brief note on sulpha drugs? Discuss the mode of action of drugs.  
(b) Suggest a suitable method for the synthesis of aspirin.
40. (a) Explain the role of vitamins as food preservatives.  
(b) Discuss the structure and applications of Sacharin.



41. Give a briefing on various reactions of (a) Pyrrole (b) Pyridine.
42. Briefly discuss the major sources of soil pollution? How it can be controlled?
43. Discuss the various methods for the treatment of water.
44. Illustrate on various factors affecting water quality.

(2 × 15 = 30 Marks)

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